

Title (en)

CATHETER WITH ELECTRODE SPINE ASSEMBLY HAVING PREFORMED CONFIGURATIONS FOR IMPROVED TISSUE CONTACT

Title (de)

KATHETER MIT ELEKTRODENDORNANORDNUNG MIT VORGEFORMTEN KONFIGURATIONEN FÜR VERBESSERTEN GEWEBEKONTAKT

Title (fr)

CATHÉTER AVEC ENSEMBLE DE SUPPORT VERTICAL D'ÉLECTRODE AYANT DES CONFIGURATIONS PRÉFORMÉES POUR UN CONTACT DE TISSU AMÉLIORÉ

Publication

**EP 3749177 B1 20220119 (EN)**

Application

**EP 19712832 A 20190205**

Priority

- US 201815890314 A 20180206
- IB 2019050906 W 20190205

Abstract (en)

[origin: US2019239810A1] An electrophysiology catheter with a distal electrode assembly having covered spine carrying a plurality of microelectrodes. One or more spines have preformed configurations including at least a first portion with a first curvature and a second portion with a second curvature, and may include a linear portion. The linear portion may be between the first and second portions. The linear portion may be distal of the first and second portions. One or more spines have a narrower portion so that different portions of the spine can have different flexibility with a degree of independence in flexibility from adjacent portions.

IPC 8 full level

**A61B 5/00** (2006.01); **A61B 18/00** (2006.01); **A61B 18/14** (2006.01)

CPC (source: EP IL US)

**A61B 5/287** (2021.01 - US); **A61B 5/6859** (2013.01 - EP IL US); **A61B 18/1492** (2013.01 - EP IL US); **A61M 25/0023** (2013.01 - IL); **A61B 2018/00166** (2013.01 - EP IL US); **A61B 2018/00214** (2013.01 - EP IL US); **A61B 2018/00357** (2013.01 - EP IL US); **A61B 2018/00577** (2013.01 - EP IL US); **A61B 2018/00839** (2013.01 - EP IL US); **A61B 2218/002** (2013.01 - EP IL US); **A61B 2562/0209** (2013.01 - IL US); **A61B 2562/028** (2013.01 - IL US); **A61B 2562/046** (2013.01 - IL US); **A61M 25/0023** (2013.01 - US)

Citation (examination)

- EP 2380519 A1 20111026 - BIOSENSE WEBSTER INC [US]
- EP 2749214 B1 20150422 - BIOSENSE WEBSTER ISRAEL LTD [IL]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**US 11058315 B2 20210713**; **US 2019239810 A1 20190808**; CN 111936038 A 20201113; CN 118021261 A 20240514; CN 118021262 A 20240514; EP 3749177 A1 20201216; EP 3749177 B1 20220119; EP 4008243 A2 20220608; EP 4008243 A3 20220928; IL 276503 A 20200930; IL 276503 B1 20230701; IL 276503 B2 20231101; JP 2021512759 A 20210520; JP 7423550 B2 20240129; US 2021007672 A1 20210114; US 2021330233 A1 20211028; WO 2019155356 A1 20190815

DOCDB simple family (application)

**US 201815890314 A 20180206**; CN 201980012148 A 20190205; CN 202410356075 A 20190205; CN 202410356080 A 20190205; EP 19712832 A 20190205; EP 22152034 A 20190205; IB 2019050906 W 20190205; IL 27650320 A 20200805; JP 2020563838 A 20190205; US 202017038780 A 20200930; US 202117372016 A 20210709